	~									Γ																											1
	Ca(PO3)2	Ba(PO3)2	23.6 AI(PO3)3	3.7 MgF2	F2	CaF2		SrF2	MgO	CaO	SrO	BaO	AIF3	PbO	ZrO2	YF3	Ce02	Sb02	SnO2	MoO3	Fe2O3	Pr203	La203	Y203	Er203	Dy203	Ta205	Nb203	Nd2O3	CuO	೦೦೦	OiN	MnO2	F2	As203	SO3	
wt% Ex10	2.4	17.6	23.6	3.7			1.8	12.4				32.2	2.5			2.3								1.5				,									100.0
wr% Ex9	2.4	13.9	23.3	5.5			14.5					31.9	2.5			4.6		8.						1.5													100.0
wr% Ex8	2.4	14.1	23.7	6.3			14.7					32.4	2.5			2.3				,				1.5													100.0
wc% E	2.4	14.1	23.9	10.3			14.8					32.5				****		**						2.0													100.0
Wr% Wr Ex6 E	1.0	14.5	26.1	8.3			17.3					30.9					-							2.0													100.0
Wr% W Ex5 E	2.4	14.1	23.7	3.7			15.7					31.8	6.5											2.0													100.0
Wt% W Ex4 E	1.0	14.8	23.7	4.4			24.0					30.6												1.5													100.001
	18.3	5.6	13.2	7.9	_		17.5	i Pot		* * *		36.0				12.52								1.5								, · · ·					100.001
% wt% 2 Ex3	1.0	15.7	Щ	11.7			7.7					34.2												1.5													100.00
o Wr% 1 Ex 2	1.0	9.9	3	6.5 1			18.3	÷ ;				27.6 3							_					1.5	-												100.0
% wt% 0 Ex 1	2.0	10.1	15.1	10.1	0.0	0.0	1.8	16.6	0.0	0.0	0.0	35.5 2	5.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0 10
% mol% Ex10	2.0	7.9 1	14.8	14.9	0.0		13.9	0.0	0.0	0.0	0.0	35.0 3	2.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0		0.0	0.0	1.1	0.0	:		0.0	0.0		0.0	0.0	0.0	0.0			100.0 10
mor% Ex9	2.0			1.0 1			4.0	0.0		0.0										-	0.0			. 1	0.0				1		200 Y			0.0		1	0.0
mol% Ex8			,				l					.,																		0							10
moi% Ex7	1.9	7.7	14.6	26.8	0.0	0.0	13.6	0.0	0.0	0.0	0.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
	8.0	8.2	16.6	22.4	0.0	0.0	16.6	0.0	0.0	0.0	0.0	33.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
moi% moi% Ex5 Ex6	2.0	8.1	15.1	10.1	0.0	0.0	15.1	0.0	0.0	0.0	0.0	35.0	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		100.0
Ex4	6.0	9.0	16.0	12.7	0.0	0.0	24.5	0.0	0.0	0.0	0.0	35.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		100.0
mor% Ex3	14.7			~			15.9	0.0	0.0	0.0	0.0	37.2	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
mol% mol% Ex1 Ex2		8.5		~			7.0	0.0	0.0		0.0	35.5	0.0		0.0		0.0		0.0	0.0			0.0	1.1													100.0
mol% Ex1			_		0.0		18.4				0.0	31.7	0.0							0.0	-		0.0				0.0							0.0			100.0
MW	J3 198	<b>33</b> 295	3) 264	<b>F</b> 62	,	78	175	126	40	56	104	153	84	224	122	146	172	153	151	146	-	-	3 326	-	_	4	_	3 234	3 332	79	75	74	_	38		80	
	Ca(PO3	Ba(PO3	AI(PO3)	MgF2	F2	CaF2	BaF2	SrF2	MgO	CaO	SrO	ВаО	AIF3	PbO	ZrO2	YF3	Ce02	Sb02	SnO2	MoO3	Fe203	Pr203	La203	Y203	Er203	Dy203	Ta205	Nb203	Nd203	Ono	၀	O <u>N</u>	Mn02	F2	As203	803	

1,6,6,9,1,6,20 22-24

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	Ca(PO3)2	Ba(PO3)2	AI(PO3)3	F2	Mg(PO3)2	F2	F2	52	0	0	0	0	:3	0	)2	3	05	02	02	MoO3	Fe2O3	Pr203	La203	<b>03</b>	Er203	Dy2O3	Ta205	Nb2O3	Nd2O3	0	0	0	MnO2		As203	3	<u> </u>
wt% Ex10	2.4 Ca	14.1 Ba	23.5 AI(I	7.3 MgF2	Mg	CaF2	14.6 BaF2	SrF2	MgO	CaO	SrO	33.0 BaO	2.5 AIF3	PbO	ZrO2	YF3	CeO2	Sb02	SnO2	Mo	Fe.	Pr2		2.7 Y203	Erz	Dy	Ta:	ΥP	PN	Ono	၀၀	ZnO	Mn	F2	As	SO3	100.0
	2.4	8.1		2.5	19.5		14.3					31.8	6.5											2.0				_								A :	100.01
% wr% 8 Ex9	2.4	13.8	23.1	3.6	-		14.3			_		35.7	4.4											2.7													100.00
% wr% 7 Ex8	2.4	13.8		6.2			18.5		_			26.9	2.5											9.9													100.001
wr% wr% Ex6 Ex7	2.4	13.6	22.7	3.6			18.1					30.7	3.9											5.2													100.001
	2.4	13.9	23.3	5.5			16.5					33.3	2.5					() * (5 / 2						2.7						ists.							100.01
Wt% Wt% Ex5	2.4	13.6	22.8	5.0			16.2					31.0	3.4	, K																940 11.4							94.4
wr% wr Ex3 E)	2.4	13.9	23.3	6.2			14.5					33.6	2.5												_												96.4
wr% w Ex 2 E	2.2	13.2	22.1	2.0			24.6			.1		28.0	4.7											3.8			-					2					100.5
Wr% W Ex 1 E	2.4	14.6	24.5	3.7			2.0	17.9				26.8	2.5							11.				9.6													100.0
mor% w Ex20 E	2.0	7.9	14.7	19.4	0.0	0.0	13.8	0.0	0.0	0.0	0.0	35.5	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
mor% r Ex8/9 E	1.9	4.5	8.1	9.9	17.5	0.0	13.4	0.0	0.0	0.0	0.0	33.9	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
e 1	2.1	8.0	15.0	10.1	0.0	0.0	14.0	0.0	0.0	0.0	0.0	39.9	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
1-	2.0	8.0	15.0	17.0	0.0	0.0	18.0	0.0	0.0	0.0	0.0	29.9	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
moi% moi% moi% moi% Ex414 Ex815 Ex816 Ex7 17	2.1	8.0	15.0	10.1	0.0	0.0	18.0	0.0	0.0	0.0	0.0	34.8	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
mor% mc Ex <b>3/5</b> Ex	2.0	8.0	15.0 1	15.1	0.0	0.0	16.0	0.0	0.0	0.0	0.0	36.8 3	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		Ш		100.0 10
mor% m Ex414 E	2.1	8.2	15.4	14.4	0.0	0.0	16.5	0.0	0.0	0.0	0.0	36.1	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		100.0 1
mor% n Ex3 3 E	2.1	8.1	15.2	17.4	0.0	0.0	14.3	0.0	0.0	0.0	0.0	37.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
mor% Ex <b>2</b> 12		6.7	1	5.7			24.7	0.0	0.0	0.0	0.0	32.2					0.0	0.0	0.0	!		0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		100.0
mor% Ex1/	8 2.0	5 8.3		2 10.0			5 1.9	6 23.8	0.0	6 0.0		3 29.3					2 0.0	3 0.0	1 0.0		0.0	0.0		6 4.1			2 0.0		2 0.0	9 0.0	5 0.0	1 0.0	7 0.0				100.0
MW	198	<sup>2</sup> 03	03) 264	2 62	02 182	2 78	2 175	126	40	56	104	153	$\dashv$	224	122	146	2 172	2 153	2 151	3 146	33 160	330	326	3 226	_	3 376	)5 442	33 234	332	79	75	8	4	38		80	
	Ca(PO3	Ba(PO3	AI(PO3)	MgF2	Mg(PO)	CaF2	BaF2	SrF2	MgO	င္မရ	S O	Sa O	AIF3	PbO	ZrO2	YF3	CeO2	SbO2	SnO <sub>2</sub>	MoO3	Fe203	Pr203	La203	Y203	Er203	Dy203	Ta205	Nb203	Nd203	O <sub>D</sub>	၀၀	ZuO	Mn02	F2	As203	<b>SO3</b>	

mol% z Ex8 zs	mol% mol% mol% mol% mol% mol% mol% mol%	$Ex2_2 Ex3_3 Ex4_24 Ex5_25 Ex6_{24} Ex7_{24} Ex8_{28}$	mot% z Ex8·28	mot% z Ex8 zs	mot% z Ex8 zs	mot% z Ex8 zs	mot% z Ex8 zs	mot% z Ex8 zs	1 6	Ĕŭ∣	Ex9 <sub>24</sub> I	mol% Ex10	Wf% Ex 1 6.3	Bei	Wt% Ex3 5.4	EX X	Wt?	6 WT% 5 Ex6	Wt% Ex7	Wf% Ex8	W(% Ex9	Wt% Ex10	
190 5.0 8.0 6.8 6.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8	5.0 8.0 6.8 6.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8	0.2 0.2 0.6 0.4 0.2	9.2 0.2 0.0 8.9 0.0 8.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.2 0.2 0.6	0.2 0.2	0.7		0.7 0.0		0.7	) 0			13.2		2.5	0.0	5.2 C.5	15		12		Ca(PO3)2
264 10.0 15.1 13.5 12.1 15.0 15.0	10.0 15.1 13.5 12.1 15.0 15.0	15.1 13.5 12.1 15.0 15.0	13.5 12.1 15.0 15.0	12.1 15.0 15.0	15.0 15.0	15.0		15.0	. ]	15.0	15.0			_1 .		` .	A I	╁		_			Ba(PO3)2 Al(PO3)3
62 9.5 18.1 14.5 10.1 15.0 15.0	9.5 18.1 14.5 10.1 15.0 15.0	18.1 14.5 10.1 15.0 15.0	14.5 10.1 15.0 15.0	10.1 15.0 15.0	15.0 15.0	15.0		15.1	1 3 4	15.0	15.0	15.1	1			.210							MgF2
0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0:0		0.0		0.0	0.0	0.0											Mg(PO3)2
78 0.0 0.0 0.0 0.0 0.0 82	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		0.0		0.0	0.0	0.0											CaF2
د,	20.1 30.1 31.9 33.1 16.0 16.0	30.1 31.9 33.1 16.0 16.0	31.9 33.1 16.0 16.0	33.1 16.0 16.0	16.0 16.0	16.0		16.0		16.0	16.0	16.0	7	29.3	31.3	32.	1 16.	.3 16.0	.0 15.0	0 16.0	15.5	15.0	BaF2
126 10.0 0.0 9.6 10.0 0.0 0.0	10.0 0.0 9.6 10.0 0.0 0.0	0.0 0.0 10.0 0.0 0.0	9.6 10.0 0.0 0.0	10.0 0.0 0.0	0.0 0.0	0.0		0.0		0.0	0.0	0.0	8.0		6.8	7	0						SrF2
40 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		0.0		0.0	0.0	0.0											MgO
0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0	8 . 8	0.0		0.0	0.0	0.0		,									CaO
0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		0.0	LI	0.0	0.0	0.0											SrO
20.0 12.4 16.0 ,32.9 29.0	20.3 20.0 12.4 16.0 ,32.9 29.0	20.0 12.4 16.0 ,32.9 29.0	12.4 16.0 ,32.9 29.0	16.0 ,32.9 29.0	.32.9 29.0	29.0		13.0		31.9	26.9	22.0	19.7	17.0	10.6	13.6	.6 29.2	2 25.3	.3 10.7	7 27.9	9 22.8	18.1	ВаО
8.3 0.0 0.0 0.0 5.1 5.0	8.3 0.0 0.0 0.0 5.1 5.0	0.0 0.0 5.1 5.0	0.0 0.0 5.1 5.0	0.0 5.1 5.0	5.1 5.0	5.0		5.0	- 1	5.0	5.0	5.0	4.4			_	2			3 2.4	4 2.3	2.3	AIF3
0.0 0.0 0.0 0.0 4.0 8.0 2	0.0 0.0 0.0 0.0 4.0 8.0 2	0.0 0.0 0.0 4.0 8.0 2	0.0 0.0 4.0 8.0 2	0.0 4.0 8.0 2	4.0 8.0 2	8.0	?	23.9	1	0.0	0.0	0.0				, i ,	2	5.2 10.2	.2 28.7	7			PbO
0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		0.0		0.0	0.0	0.0											ZrO2
0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		0.0	. 1	0.0	0.0	0.0					900						YF3
172 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		0.0		0.0	0.0	0.0											CeO2
0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		0.0	100	0.0	0.0	0.0											SbO2
0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		0.0	. !	0.0	0.0	0.0											SnO2
146 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		0.0	,z.211	0.0	0.0	0.0											MoO3
394 1.7 1.7 1.6 1.7 0.0 0.0	7.7 1.7 1.6 1.7 № 0.0 0.0	1.7 1.6 1.7 0.0 0.0	1.6 1.7 0.0 0.0	1.7 0.0 0.0	<i>№</i> 0.0	0.0		0.0	- 1	0.0	0.0	0.0	4.2	3.6	3.6		3.6						Yb2O3
330 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		0.0	22.0	0.0	0:0	0.0				\$4.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1							Pr203
326 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		0.0		0.0	0.0	0.0							_				La203
226 0.0 5.0 4.8 6.0 2.0 2.0	0.0 5.0 4.8 6.0 2.0 2.0	5.0 4.8 6.0 2.0 2.0	4.8 6.0 2.0 2.0	6.0 2.0 2.0	2.0 2.0	2.0		2.0	* 1	2.0	2.0	2.0		6.3	6.1	7	.5 2.	.6	6 2.	4 2.6	3 2.5	2.4	. Y203
380 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		0.0		0.0	0.0	0.0											Er203
376 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		0.0		0.0	0.0	0.0											Dy203
442 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		0.0	_	0.0	0.0	0.0											Ta205
266 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0 0.0	0.0		0	ᅴ	5.0	10.0	15.0						_		7.6	3 14.7	21.3	Nb205
0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		0.0	_	0.0	0.0	0.0											Nd2O3
79 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		0.0		0.0	0.0	0.0			Ì				•				CuO
	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		0.0	1	0.0	0.0	0.0											CoO
0.0	10.1 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		0.0	1.1	0.0	0.0	0.0	5.2										OuZ
0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		0.0	Щ	0.0	0.0	0.0											MnO2
38 0.0 0.0 0.0 0.0 0.0 88	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		Ö.	0	0.0	0.0	0.0											F2
0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		ö	Ы	0.0	0.0	0.0											As203
0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0		ŏ	ᅱ	0.0							· .						SO3
100.0 100.0 100.0 100.0 100.0 100.0 100.0	100.0   100.0   100.0   100.0   100.0	100.0   100.0   100.0   100.0   100.0	100.0 100.0 100.0 100.0	100.0 100.0 100.0	100.0 100.0	100.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.1	1 100.0	.0 100.0	.0 100.0	0.001 0	100.0	100.0	

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